

Title (en)

Mandrel for bending

Title (de)

Biegedorn

Title (fr)

Mandrin à cintrer

Publication

EP 1488867 A1 20041222 (EN)

Application

EP 04014189 A 20040617

Priority

JP 2003175101 A 20030619

Abstract (en)

A mandrel for bending of simple construction and sufficient rigidity is obtained. The mandrel comprises a plurality of plugs (12). Each plug is provided with a spherical outer peripheral surface. A fulcrum pin (16) is fitted through the plug. The first and second link members (18,20,22) are rotatably attached to the fulcrum pins of the neighboring plugs so as to connect the neighboring plugs. The plug is also provided with a spherical depression which the adjoining plug can enter during the bending. The plugs are connected to the shank (14) via the second link members.
<IMAGE>

IPC 1-7

B21D 9/03

IPC 8 full level

B21D 9/03 (2006.01)

CPC (source: EP US)

B21D 9/03 (2013.01 - EP US)

Citation (search report)

- [X] FR 2248683 A7 19750516 - IND MECCA BREV PEDRAZZOLI [IT]
- [AD] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 03 29 March 1996 (1996-03-29)

Cited by

EP2679319A1; CN108296330A; CN110756631A; CN109201807A; CN109201806A; ITMI20121137A1; US10677365B2; US9638337B2; US9964245B2; USD873860S; US10738928B2; US9857807B2; US10557576B2; US11519530B2

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